



METAL ETCHING

Buckbee Mears

Because at Buckbee Mears Company the master requires only a set of line drawings (not a set of complicated dies) the pilot run is inexpensive. Because automatic equipment produces quantities, production runs consistently keep costs down . . . Anything that can be drawn in line can be etched. Current production items are color T.V. shadow masks, curved shaver grills, springs, mechanical parts, optical and fire control reticles plus etching on many types of metal in various thicknesses.

PROGRESS . . . the continuing effort of hand and mind



METAL ETCHING DATA

DESIGNS AND TYPES	METALS	DIMENSIONAL TOLERANCES
Fire Control Reticles	Copper and Copper Alloys	Linear to 3" ± .0002
Reticles for Optical Instruments	Nickel and Nickel Alloys	Linear to 12" ± .001
Scales	Cupro Nickel	Linear to 24" ± .003
Calibrated Dials	Spring Steel	Angular ± 0° 0' 30"
Reticles for Guidance Systems	Stainless Steel	Line Widths to .002 ± .0001
Micro Component Parts for Control Systems	Aluminum	Line Widths to .005 ± .0005
Curved Surface Etched Parts	Cold Rolled Steel	Line Widths to .010 ± .001
Cylindrical Surface Etching	Molybdenum	Line Widths over .010 15% of Metal Thickness
Mechanical Parts Too Complicated for Die Stamping	Tungsten, Lead, Inconel	

Copper and its alloys can be etched in thickness to .030, nickel and its alloys up to .020, stainless steel to .025 and Molybdenum up to .008.

The above figures are for etching patterns entirely through metal. For surface etching, metal thickness is unimportant. The ideal line width or hole size ratio to metal thickness is 1:1.

Etching does not change the molecular structure—leaves no burrs to remove. Round, square, oval or slotted holes are etched to specifications to tolerances of .0001. Prove it to yourself by trying us on your most complicated, precise job.

For complete information call or write . . .

BUCKBEE MEARS CO.
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Buckbee Mears Company also manufactures etched forms and electroforms of unusual accuracy — items used in electronic tubes, shaver heads, numerical indicator tubes, color television masks. Perhaps a component for your product could be made better and more economically by this process. We will gladly quote from your specifications.